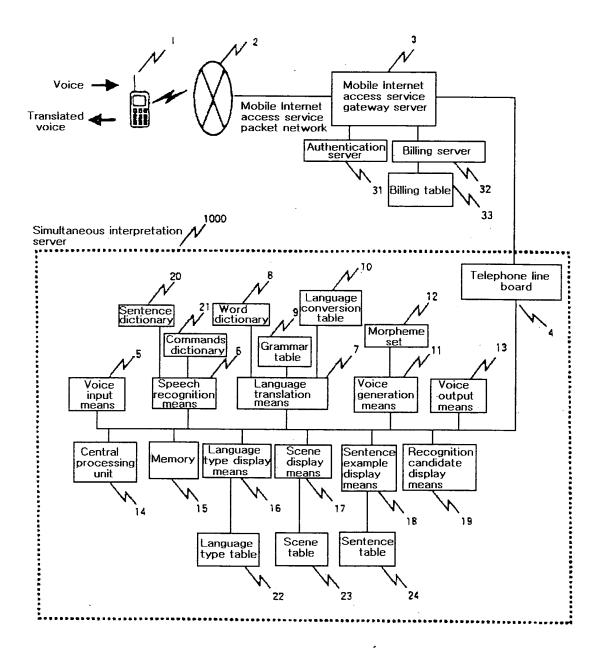APPLN. FILING DATE: NOVEMBER 6, 2003
TITLE: THIRD-PARTY CALL CONTROL TYPE
SIMULTANEOUS INTERPRETATION SYSTEM AND
METHOD THEREOF
INVENTOR(S): JAE-WON LEE ET AL
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FIG. 1

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FIG. 2

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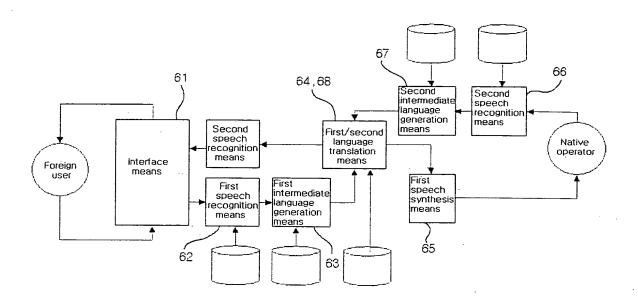**ATTY. DOCKET No.:** 033808-006   SHEET 3 OF 7

FIG. 3

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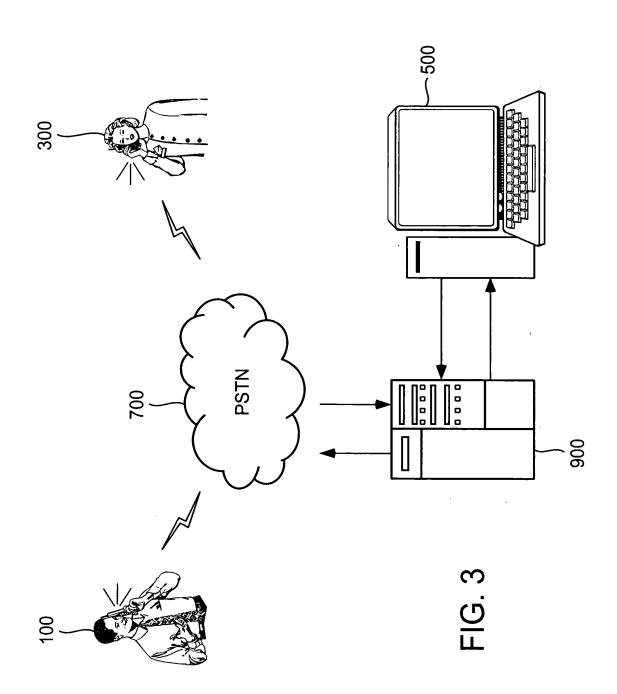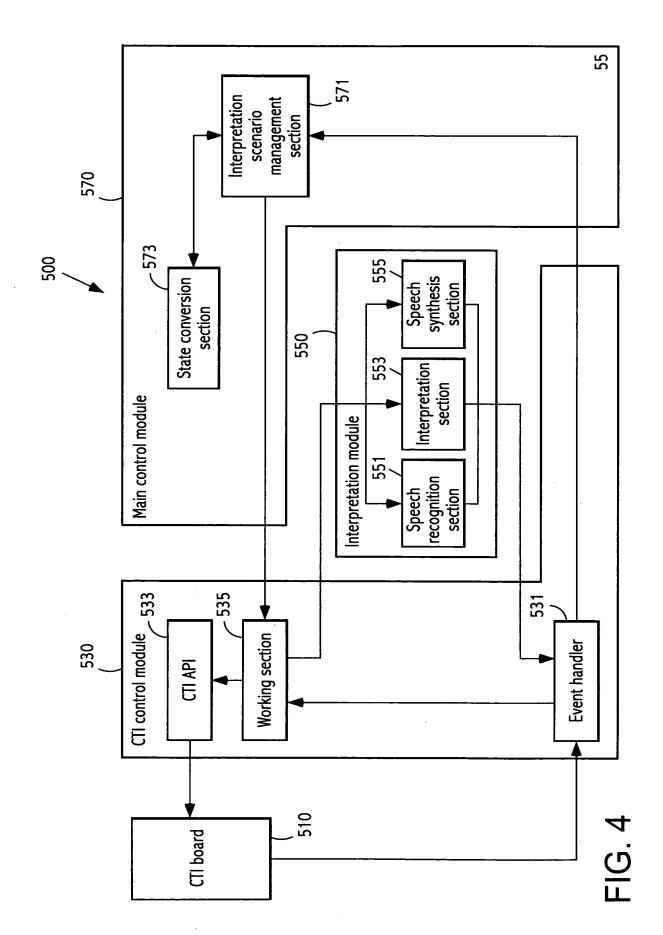INVENTOR(S): JAE-WON LEE ET AL
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FIG. 4

FIG. 5

Operation						
Phone dialing (IB_SendCall)	dx_clrcap	dx_dial	delay TDX_CALLP	ATDX_CONTYPE	ATDX_CPTERM	
Phone answering (IB_WaitCall)	dx_sethook	delay TDX_CST				
Phone disconnection (IB_Disconnect)	dx_stopch	delay ATDX_STATE	dx_sethook	delay TDX_CST		
Button pressing (IB_PlayTone)	dx_blddt	dx_addtone	dx_playtone	delay TDX_PLAYTONE		
Button reading (IB_GetDigit)	dx_clrdigbuf	dx_getdig	delay TDX_GETDIG			
Tone detection (IB_WaitTone)	dx_deltones	dx_blddt	dx_addtone	delay TDX_CST		
Sound emitting (IB_PlayVoice)	dx_stopch	delay ATDX_STATE	dx_fileopen	dx_play	delay TDX_PLAY	dx_fileclose
Sound hearing (IB_RecordVoice)	dx_stopch	delay ATDX_STATE	dx_fileopen	dx_rec	delay TDX_RECORD	dx_fileclose
Speaking (IB_PlayTTS)	dx_stopch	delay ATDX_STATE	Speech synthesis	dx_play	delay TDX_PLAY	
Listening (RecogSpeech)	dx_stopch	delay ATDX_STATE	dx_setdevuio	dx_rec	delay TDX_RECORD	Speech recognition

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FIG. 6

Current state	Event	Action	Remarks	
ST_START	EVT_WAITCALL	OnGotoPlayWelcomeMent	Start – Phone answering (①)	Phone connection step
	EVT_ERROR	EVT_ERROR		
ST_PLAYWELCOMEMENT	EVT_PLAYVOICE	OnEndPlayWelcomeMent	Output of welcome message (②)	
	EVT_DISCONNECT	OnGotoStart		
	EVT_ERROR	OnGotoReset		
ST_PLAYPHONENUMMENT	EVT_PLAYVOICE	OnEndPlayPhoneNumMent	Output of message for phone number input (③)	
	EVT_DISCONNECT	OnGotoStart		
	EVT_ERROR	OnGotoReset		
ST_GETPHONENUMDIGIT	EVT_GETDIGIT	OnEndGetPhoneNumDigit	DTMF tone detection (④)	
	EVT_DISCONNECT	OnGotoStart		
	EVT_ERROR	OnGotoReset		
ST_PLAYOUTBOUNDCALLMENT	EVT_PLAYVOICE	OnEndPlayOutboundCallMent	Output of call connection announcement (⑤)	
	EVT_DISCONNECT	OnGotoStart		
	EVT_ERROR	OnGotoReset		
ST_PLAYCONNECTFALMENT	EVT_PLAYVOICE	OnEndPlayConnectFailMent	Output of call connection fail message (⑥)	
	EVT_DISCONNECT	OnGotoStart		
	EVT_ERROR	OnGotoReset		
ST_PLAYCONNECTSUCCESSMENT	EVT_PLAYVOICE	OnEndPlayConnectSuccessMent	Output of call connection success message (⑦)	
	EVT_DISCONNECT	OnGotoStart		
	EVT_ERROR	OnGotoReset		
ST_PLAYINTRODUCEMENT	EVT_PLAYVOICE	OnEndPlayIntroduceMent	Output of use announcement (⑧)	Automatic interpretation step
	EVT_DISCONNECT	OnGotoStart		
	EVT_ERROR	OnGotoReset		
ST_GETRECOGSTARTDIGIT	EVT_PLAYVOICE	OnEndGetRecogStartDigit	Start of voice recording --> select '∗' button (⑨)	
	EVT_DISCONNECT	OnGotoStart		
	EVT_ERROR	OnGotoReset		
ST_GETRECOGSTOPDIGIT	EVT_PLAYVOICE	OnEndGetRecogStopDigit	Termination of voice recording --> select '#' button (⑩)	
	EVT_DISCONNECT	OnGotoStart		
	EVT_ERROR	OnGotoReset		
ST_SPEECHRECOG	EVT_RECOGSPEECH	OnEndSpeechRecog	Speech recognition (⑪)	
	EVT_DISCONNECT	OnGotoStart		
	EVT_ERROR	OnGotoReset		
ST_PLAYRECOGFAILMENT	EVT_PLAYVOICE	OnEndPlayRecogFailMent	Output of speech recognition fail message (⑫)	
	EVT_DISCONNECT	OnGotoStart		
	EVT_ERROR	OnGotoReset		
ST_PLAYTTSRECOGSENTENCE	EVT_PLAYVOICE	OnEndPlayTtsRecogSentence	Recognized sentence to speech synthesis (⑬)	
	EVT_DISCONNECT	OnGotoStart		
	EVT_ERROR	OnGotoReset		
ST_TRANSRECOGSENTENCE	EVT_TRANS	OnEndTransRecogSentence	Translation of recognized sentence (⑭)	
	EVT_DISCONNECT	OnGotoStart		
	EVT_ERROR	OnGotoReset		
ST_PLAYTTSTRANSSENTENCE	EVT_PLAYVOICE	OnEndPlayTtsTransSentence	Translated sentence to speech synthesis (⑮)	
	EVT_DISCONNECT	OnGotoStart		
	EVT_ERROR	OnGotoReset		
ST_OUTTRANSSENTENCE	EVT_PLAYVOICE	OnEndOutTransSentence	Output of translated sentence (⑯)	Interpretation Transmission step
	EVT_DISCONNECT	OnGotoStart		
	EVT_ERROR	OnGotoReset		
ST_PLAYRCVWAITMENT	EVT_RCVSENTENCE	OnEndGetRcvSentence	Receipt of answer sentence (⑰)	
	EVT_NOTRCV	OnGotoPlayIntroduceMent		
	EVT_ERROR	OnGotoReset		
ST_OUTRCVSENTENCE	EVT_PLAYVOICE	OnEndOutRcvSentence	Output of answer sentence (⑱)	
	EVT_DISCONNECT	OnGotoStart		
	EVT_ERROR	OnGotoReset		
ST_PLAYDINGDONGMENT	EVT_PLAYVOICE	OnEndPlayDingdongMent	End of sentence output	
	EVT_DISCONNECT	OnGotoStart		
	EVT_ERROR	OnGotoReset		
ST_ERROR	EVT_DISCONNECT	OnGotoStart	Error processing	
	EVT_PLAYVOICE	OnGotoReset		
	EVT_ERROR	OnGotoReset		

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FIG. 7